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(54) Title: HIGH VOLTAGE, HIGH EFFICIENCY SINE WAVE GENERATOR THAT PREVENTS SPIKES DURING AMPLITUDE ADJUSTMENTS AND SWITCHING OF CHANNELS

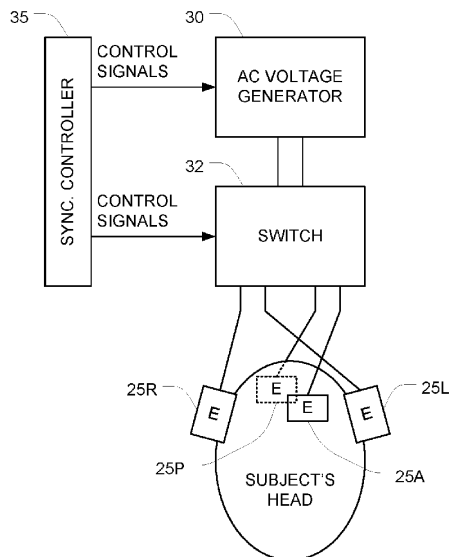


FIG. 18

(57) Abstract: This application describes a variety of approaches for generating high voltage sinusoidal signals whose output voltage can be adjusted rapidly, without introducing high-frequency artifacts on the output. When these approaches are used, stronger electric fields can be applied to the tumor for a higher percentage of time, which can increase the efficacy of TTFields therapy. In some embodiments, this is accomplished by preventing adjustments to a DC power source during times when the output of that DC power source is powering the output signal. In some embodiments, this is accomplished by synchronizing the operation of an AC voltage generator and an electronic switch that is connected to the output of the AC voltage generator.

WO 2021/137085 A3

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